

A giant step towards cancer control earns international recognition

Dennis Vance first Canadian awarded Heinrich Wieland Prize

By Judy Goldsand

Dennis Vance (Biochemistry) has just returned from Munich where he was awarded the prestigious Heinrich Wieland Prize (1995), along with co-winner, Professor JE Schaffer from Washington University in St. Louis. Dr Vance, who has been conducting basic research in lipids for more than 20 years, was honoured for his discovery of a tumor-suppressing enzyme that is specific for liver. It is also the first tumor suppressor that is an enzyme involved in lipid biosynthesis.

The finding is a great testimonial to basic research, Dr Vance says. "The people who first discovered the enzyme in 1960 would never have expected it to have anything to do with control of cancer."

The international Heinrich Wieland Prize, named in honour of a former Nobel Prize winner from Munich University, has been awarded annually since 1964 for exceptional fundamental research. In a talk entitled "Unexpected Findings from Curiosity Driven Research", Dr Vance told the audience at the awards ceremony about the role of chance and serendipity in his research.

Born in the United States, Dr Vance immigrated to Canada in 1973 after studies at the University of Pittsburgh, Harvard, and a special postdoctoral year in England. Following 13 years at UBC, he came to the University of Alberta in 1986 to be Director of the Lipid and Lipoprotein Group.

His own particular research interest is in the biosynthesis of phosphatidylcholine (PC), a lipid which is the building block of the cell wall. When he came to the U of A,

says Dr Vance, one of the major objectives was to purify an enzyme that makes PC. This was achieved in 1987 by one of his graduate students, Neale Ridgway.

"Soon afterward," says Dr Vance, "a talented postdoctoral fellow, Zheng Cui, joined the lab and was able to clone the DNA for the enzyme [called PEMT]."

Then came a series of unexpected findings.

"The PEMT enzyme that Zheng cloned turned out to be different from the one we thought we had cloned. It was a new, previously unknown form of PEMT." This discovery was made, says Dr Vance, only

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RUBENS TO PICASSO A HUGE DRAWING CARD

A total of 26,954 visitors toured the Rubens to Picasso exhibition at FAB Gallery. The unique collection of Master Drawings was on display from 16 September to 5 November. Please see story, page 3.



Louise Asselstine

Gift of \$300,000 puts Law Campaign 75 over the \$2M mark

By Shannon Zwicker

Eldon Foote, an alumnus of the Faculty of Law and a successful businessman in Japan, has made a gift of \$300,000 to the Faculty's campaign, bringing the total raised to date to more than \$2 million. Foote, who endowed a chair in International Business and Law in the Faculty of Business Competitive Edge campaign in 1987, has designated his latest gift to the Faculty of Law's moot court room.

"This is the largest campaign gift we have received from an individual," says Tim Christian, Dean of the Faculty of Law. "With Mr Foote's generosity, we will be able to ensure that our moot court room, which prepares students for courtroom work after graduation, continues to meet our educational needs."

In addition to the \$300,000 gift from Foote, the Faculty has received \$233,671 from alumni and friends in the past two weeks, including two bequests with a

combined value of \$110,000. "I am delighted with the level of support that we have attained so far," Dean Christian says, "but to me, the best thing about this campaign is not the money. It is the closer relationship the Faculty is building with the legal community as the campaign progresses."

"This campaign will not end once we've raised \$3 million. The fundraising will end, but the closer relationship we have built with the legal community will continue to grow."

As part of the campaign, the Faculty has created a Board of Counsel to the Faculty of Law, which will determine how undesignated gifts made to the campaign will be allocated. A group of alumni is also discussing the possibility of a branch alumni association for law graduates.

Shannon Zwicker is the Development Officer in the Faculty of Law.

Law Campaign

Goal

Campaign to Date



Planned Gifts:	\$110,000
Campaign Gifts:	\$309,276
Law Students Gift:	\$10,000
Eldon Foote Gift:	\$300,000
McLean Gift:	\$250,000
CN Gift:	\$300,000
Decore Gift:	\$200,000
Executive Gifts:	\$283,500
Faculty of Law Gifts:	\$258,600

Pharmacy Research Day highlights Nobel laureate

Women scientists inspired by Elion's perseverance and fortitude

By Judy Goldsand

Nobel laureate Gertrude Elion was on campus 3 November for the seventh annual Pharmacy Research Day, sponsored by Hoffman-La Roche.

As the keynote speaker, Dr Elion described her role, which she calls her "Pilgrim's Progress" in medical advances through four decades. Her work progressed from a research focus in the 1940s involving chemistry, microbiology and biochemistry, to the advent of successful oncology in the '50s, to transplantation in the '60s, through virology in the '70s, culminating in the 1988 Nobel Prize for Physiology or Medicine.

Dr Elion is credited with the synthesis and co-development of two of the first

drugs to successfully treat leukemia. She also is recognized for the development of an agent used to prevent organ rejection in transplantation (Imuran). The availability of Imuran was the cornerstone of organ transplantation as we know it today, said Dr Elion. This drug enabled 230,000 kidney transplants to be done worldwide between 1974 and 1990. Drugs to treat herpes virus and gout also were developed by Dr Elion.

"As a woman, I am grateful to Dr Elion for her perseverance and fortitude and for making a difference," said Martha Piper, Vice-President (Research and External Affairs). "She has been an inspiration to generations of women scientists."

Dr Piper said that the interactive process between teaching and research requires a coming together of scholars and leaders in their fields with bright young students, each group being inspired and challenged by the other. "Through programs such as Pharmacy Research Day, the University provides a meeting place for these two groups to demonstrate the power of this interactive process."

Shirley McClellan, Minister of Health, who also was recently appointed an Adjunct Professor of Health Sciences, told

"It is not hard for our government to support the research going on here. We have seen very clearly the intent of the University to partner with the private sector."

Shirley McClellan

Photo Services



Nobel laureate Gertrude Elion meets with Pharmacy students.

FOLIO

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Public Affairs produces *Folio* on a regular basis for employees and volunteers at the University of Alberta.

Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 465-3307 for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be printed with acknowledgment.

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University
of
Alberta

Heinrich Wieland Prize

Continued from page 1

by chance, by knowing about some research being done in a nearby lab in the Heritage Medical Research Building by Dr Jean Vance (his spouse).

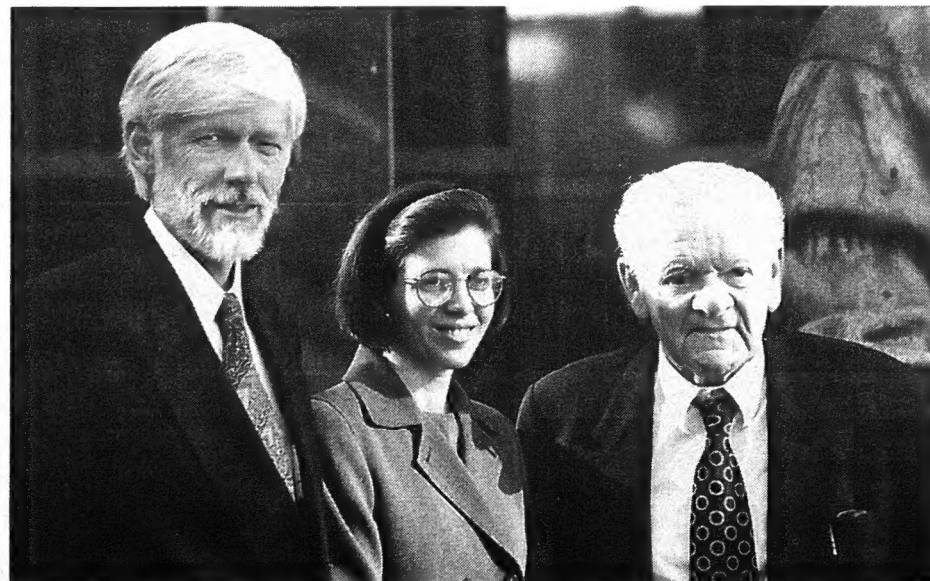
Following a period of experimentation with this new form of the enzyme (called PENT-2), they discovered that it inhibited cell growth. Subsequent research (in collaboration with a professor in Italy, Luciana Tessitore) has shown that in the early stage of tumor growth this enzyme disappears.

Dr Vance modestly agrees that this finding has the potential of "someday being useful". If it really turns out to suppress tumors in animals (and he says that hasn't been demonstrated), another challenge will be to deliver the enzyme to the liver.

Cross Cancer Institute Director Tony Fields says that in Canada and other Western countries, cancer of the liver as a primary site is uncommon, but more often occurs as a secondary lesion, spreading from elsewhere in the body. However, there is a high incidence of primary cancer of the liver in Asia and Africa. Both types of cancer of the liver carry a high mortality rate.

"Any alternative approach that controls tumor growth with a potential to prolong life would be most welcome," observes Dr Fields.

Dr Vance's research has received ongoing support from the Medical Research Council of Canada, AHFMR, and the Heart and Stroke Foundation of Alberta. ■



Dennis Vance, left, and Dr JE Schaffer, co-winners of the Heinrich Wieland Prize, meet with Dr Theodore Wieland, right, son of Heinrich Wieland. Dr Wieland presented the award in Munich.



CURRENTS

Materials Management conducting orientation sessions

The Department of Materials Management will be conducting orientation sessions for its client departments on campus. These sessions will focus on the services offered by Materials Management, whose administrators say, "By having workshop-style sessions, we hope to gain insight from our clients as to how we can best serve their needs."

Ninety-minute sessions will be held at the Materials Management Building 2nd Floor Conference Room on 21, 22 and 23 November. Sessions times are 9:30 am and 1:30 pm each day. To register, call 492-5438.

Library booksale

The University of Alberta Library is having a booksale 22 and 23 November from 9 am to 3 pm on the lower floor of Cameron Library (adjacent to the new Cameron Study Hall).

Panel will discuss what does and doesn't happen with nursing research

The Utilization and Non-utilization of Research in Nursing is the topic for a panel presentation 22 November in 6-102 Clinical Sciences Building. The two-hour event will start at 1:30 pm. Panelists are: Glenn Griener, Biomedical Ethics Centre; Ron Wensel, Capital Health Authority; Betty Anderson, a clinical nurse specialist; and Carole Estabrooks, PhD candidate in the Faculty of Nursing.

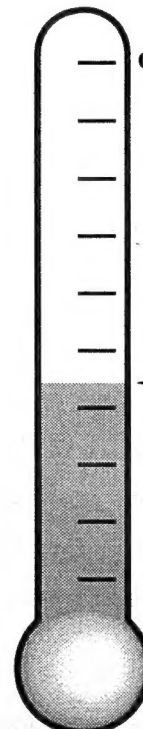
AGT, ED TEL offer seats for Pavarotti concert

In conjunction with Pavarotti Live!, 25 November at the Edmonton Coliseum, a block of seats priced at \$75 each (plus applicable surcharges and taxes) has been made available by AGT and ED TEL and reserved for students and staff of educational institutions. Staff or student identification must be presented at point of purchase to be eligible. Limit 2 tickets per person. For further information, call TicketMaster at 451-8000.



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If you have not yet received a pledge card, call Nancy Smiley at extension 4452. Please see Events, page 11, for United Way Lunchbox Theatre activities.



Our goal: \$225,000

← \$110,336

Smart new payphones come to campus

By Sharon Wastle

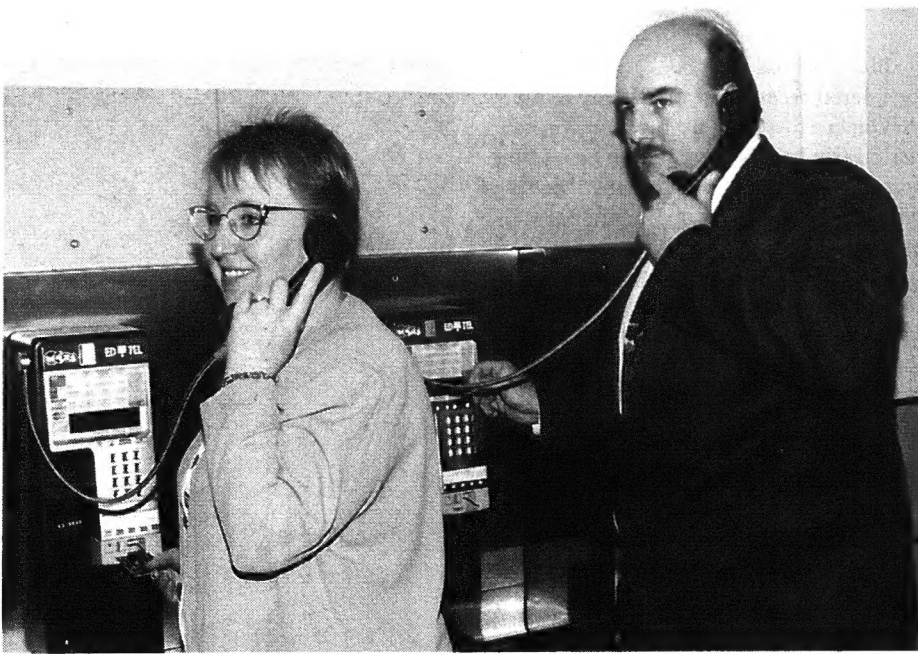
The University of Alberta and ED TEL have entered into a five-year partnership that will result in new "smart" payphones on campus.

Millennium is part of a new family of phones manufactured in Alberta and ED TEL is among the forerunners in telecommunications who are presenting the system to customers. Coordinated through the Telecommunications Division of Physical Plant, ED TEL started a mass deployment of approximately 120 Millennium phones on campus on 1 November.

This is more than a facelift, it's the start of a whole new life for pay stations. With Millennium, payphones graduate to a higher degree in communications. This user-friendly "smart" set transforms the simple call box into a high tech public access terminal.

To meet the campus community's growing concern with safety, Telecommunications is pleased to announce that the new Millennium payphones will be equipped with a speed dial button for one touch, no-coin-needed, access to Campus Security. Using the calling line identification information, Campus Security can identify the exact payphone from which the call was made, to ensure a prompt response to emergency calls.

Millennium's intelligence includes enhanced volume control, audio prompts, and a visual display screen with prompts



Sharon Wastle and Mike White, product manager, ED TEL Payphone Services, try the new Millennium payphones in SUB.

in both English and French. Another big change is payment options. The new sets will accept coins, mag-stripe (such as calling card/commercial credit cards) and, in the very near future, rechargeable micro-chip cards. The Millennium system promotes long distance charges so customers always know what they are spending. It even "reports" itself to the telephone com-

pany's main computer for repairs or coin collections.

Millennium is the next generation in payphone service. It's the beginning of a whole new world of information and service delivery and it's about to change the way callers see pay stations forever.

Sharon Wastle is Telecommunications Utility Manager in Physical Plant.

Minister to host forum on adult learning

300 participants expected on 29 November

By Folio staff

Several representatives from the University of Alberta will participate in Alberta's adult education forum later this month.

The forum, which will be hosted by Jack Ady, Minister of Advanced Education and Career Development, will mark the first time stakeholders have met since the October 1994 release of the department's strategic planning document, *New Directions for Adult Learning in Alberta*.

A total of 300 participants have been invited, including representative of students, faculty, business and postsecondary institutions along with other Albertans who have a role to play in the future of adult learning.

According to Advanced Education, those invited from the University of Alberta include Board of Governors' Chairman John Ferguson; President Rod Fraser; Students' Union President Garrett Poston; Graduate Students' Association President Jay Krushell, Amit Monga, Executive Vice-President, and Steven Karp, Past President of the GSA; Academic Staff Association President Rick Szostak, Confederation of Alberta Faculty Associations President James Marino, and distance education expert Terry Anderson. In the event invited participants are unable to attend, they will nominate an alternate. Allan Tupper, Associate Vice-President (Research and External Affairs), and Anne Marie Decore, Associate Vice-President (Academic), will join those attending from the U of A.

The forum will begin on Wednesday, 29 November, continue through Thursday and end at noon on Friday, 1 December. Approximately one-third of the participants are adult learners, with the other two-thirds representing various partners in the system.

The topics to be discussed include funding, learning and technology, employability, accountability, and university research.

A full report of the forum's proceedings will appear in a future issue of Advanced Education's tabloid, *Innovations*.

Rubens to Picasso: What a run!

By Ron Thomas

"It was much more successful and popular than any of us ever dreamed of," says Desmond Rochfort of the just concluded art exhibition, *Rubens to Picasso*.

With 26,954 people having passed through FAB Gallery, Dr Rochfort says he wouldn't be surprised if it turns out to be the most heavily attended art exhibition in Alberta. Even if it had been held in New York, London or Paris, that's a significant

attendance, he says. And it came off without a hitch. "We only had to deal with the line-ups," Dr Rochfort says, at the same time expressing thanks to all staff and students who worked long hours before and during the exhibition's seven-week run. "Everyone did their part."

The ticket sales breakdown is as follows: adults, 11,271; students, 7,135; seniors, 2,114; families, 827. Another 837 students bought unlimited entry tickets. As well, the exhibition's catalogues, posters and T-shirts were virtually sold out.

Rubens to Picasso attracted people from out of province and out of Canada.

We were completely surprised by the number of schools that showed up, Dr Rochfort told *Folio*. "We thought that only Grade 11 and 12 students would be interested, but that wasn't the case. *Rubens to Picasso* was a phenomenal outreach activity."

As a result of the exhibition's success, Dr Rochfort indicates that a travel endowment for U of A Art and Design students will likely be established. It would be in the \$75,000 to \$100,000 range, he says.

Maclean's rankings out Monday

By Jeanne Thibault

Maclean's staff are aiming to have the university survey issue on the newsstands by Monday, 13 November. The Quebec referendum had delayed the release of the issue by one week.

Maclean's will use the same methodology as last year to rank universities as well as publish more raw data. This year, Memorial, Manitoba, Moncton and all of the Quebec francophone universities have decided not to participate in the survey. Carleton, Winnipeg and Concordia are back in.

Last year, the University of Alberta moved from 10th position to sixth in the overall ranking for medical/doctoral universities.

Jeanne Thibault is Chief, Media and Public Relations for the Association of Universities and Colleges of Canada.

Chuang, Hodges acclaimed at ASTech Awards Gala

By Ron Thomas

"Last one out, turn off the lights." In the labs of Bob Hodges and Karl Chuang, they are the ones who often perform that small duty, often in the small hours of the morning.

Last Friday, Drs Chuang and Hodges and a number of other University of Alberta scientists were squarely in the spotlight as the Alberta Science and Technology Leadership Awards Foundation held its sixth annual awards gala.

Dr Hodges (Biochemistry) topped the Outstanding Leadership in Alberta Science category. Dr Chuang (Chemical Engineering) was victorious in the Outstanding Leadership in Alberta Technology category.

Dr Hodges' contributions have been substantial in several areas, including peptide synthesis, calcium-binding proteins, muscle regulation and synthetic

vaccine development, ASTech noted. "He is a member of two of the National Centres of Excellence and plays a significant role in industry, promoting technology transfer and economic development in Canada."

Dr Chuang has applied his expertise in catalysis chemistry and chemical engineering to help solve practical problems for both people and industry throughout the world. Several of his many patents are being successfully licensed and used in industrial applications, and he is considered one of the world's foremost experts on heavy water production processes.

In the Innovation in Oils Sands Research category, the winner, Norbert Morgenstern (Civil Engineering), was cited for building the U of A's program into an internationally recognized centre of geotechnical excellence. "Dr Morgenstern is admired by students and colleagues

alike and has had great impact in the future development of the oil sands. His work has contributed to better surface mining methods, improved safety and lower costs."

John Colter, former Chair of the Department of Biochemistry, accepted an ASTech award for Outstanding Contribution to the Alberta Science and Technology Community. Dr Colter took up the chairmanship in 1961, and ASTech noted that "over the next 26 years his vision and uncompromising standards of excellence resulted in a Biochemistry Department that is recognized internationally for its high standards of teaching and scientific research."

"This year's finalists and winners are prime examples of how Albertans can turn discovery and ingenuity into prosperity," said Carla Campbell of Industry Canada, the ASTech event's co-chair.



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Conrad Black speaks his mind

Discusses Quebec situation in Princeton Distinguished Lecture

By Ron Thomas

Business people and academics got word from the front, as it were, when Conrad Black delivered the Princeton Distinguished Lecture in Finance, 26 October.

Black, chairman and CEO of Hollinger Inc, and wearer of several hats, settled his historian's chapeau on his head and recounted how, in the '60s, Quebec changed from a "sullen, inward-looking place little interested in its English speaking countrymen, to a seething hotbed of regional disaffection even less interested in English Canada.

"As Quebec awakened with a start from its long torpor, many English Canadians were disposed to make jurisdictional and cultural concessions to it, hoping their goodwill would be reciprocated. Unfortunately and as was widely predicted in Alberta, it has not been."

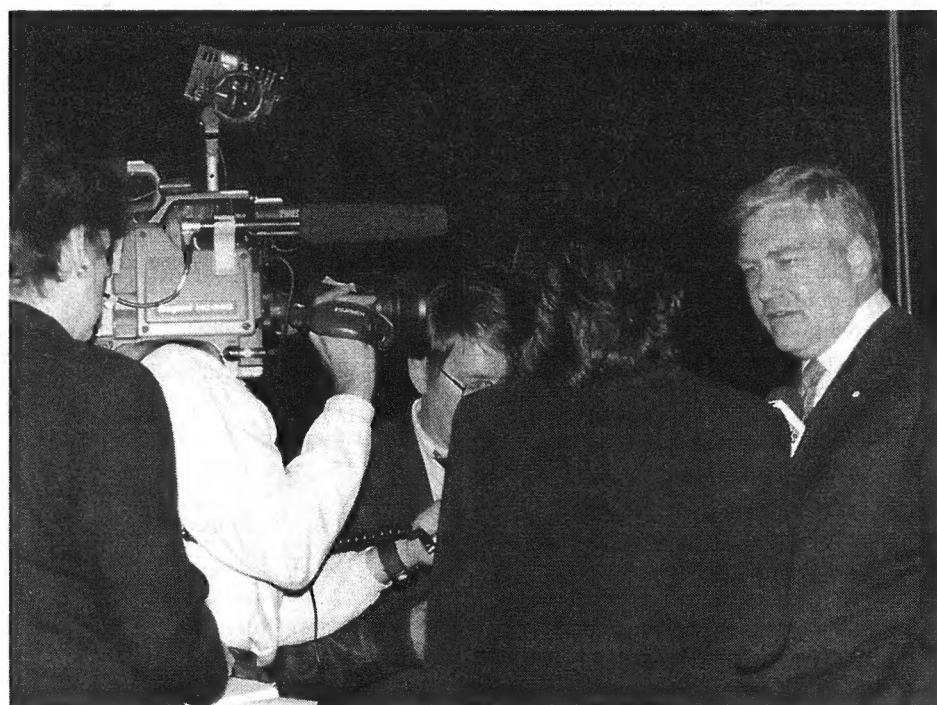
He told the near-capacity audience at the Timms Centre that he may be "one of the few English-speaking people in this country who finds the referendum campaign in Quebec somewhat exhilarating and is essentially undismayed by the possibility of a yes vote." Lucien Bouchard "appeals for independence with little concern for the economic consequences to Quebec or Quebec's future relations with Canada," Black said. "His directness is relatively refreshing."

Black, whose 1976 book, *Duplessis*, is considered an authoritative study of modern Quebec history, said his home province clearly has the potential to be a viable country "and if that is what they want it is neither an illegitimate nor an unnatural ambition."

The "most ill-considered of all Canada's national initiatives," he said, was the desire to show that Canadians are more "caring and compassionate" than Americans. "This idea began relatively innocently with universal medical care and much stricter gun control than the United States. Our medical profession and gun owners and collectors were somewhat oppressed and many of our best doctors moved to the United States. But the worst consequence of this policy was that it began the unique and in the opinion of many, including most Albertans and, as I have often written, including me also, the absolutely mad concept of trying to define a nationality and a country by its social programs."

Black took Canada to task for being a "plain vanilla country" that's "between the 40 yard lines". While Canada is peaceable and prosperous, it's lacking in excitement, distinctiveness and self-assuredness, he said.

"I have always believed that we could overcome these inhibitions and shortcomings and achieve our full potential only if



Conrad Black responds to reporters' questions following the Princeton Distinguished Lecture in Finance, at the Timms Centre for the Arts.

the Quebec uncertainty was resolved." Claiming that there are probably fewer than 20 great nationalities, Black said that if Quebec settles its crisis of orientation, Canada could join that eminent group.

"With Quebec as a fully functioning component of Canada, we could enjoy the

same confidence of our durability other distinguished nationalities have had. We could stop bankrupting ourselves trying to bribe Quebec to remain in Canada. We might even succeed in inspiring ourselves." ■

Lois Stanford to head the Institute for Stuttering Treatment and Research

By Folio staff

Lois Stanford has been named Acting Executive Director of the Institute for Stuttering Treatment and Research (ISTAR) by the Dean of Rehabilitation Medicine, Albert Cook, upon the recommendation of the Institute's Board of Directors.

Dr Stanford's appointment comes as a result of the untimely death of Dr Einer Boberg who, together with Deborah Kully, the Clinical Director, co-founded the Institute. Since its inception, the Institute has achieved an international reputation as a centre of excellence in the treatment and research of fluency disorders.

"Dr Stanford will be a notable addition to the team that has guided and developed ISTAR to its present secure position," says Dr Cook. Dr Stanford is a professor in the Department of Linguistics at the U of A. Her research interests are psycholinguistics and discourse analysis. A member of the founding Board of Directors of the Institute in 1986, she served on the Board until 1990. She was Vice-Chair of the Board in 1986, and Chair from 1987 to 1989.

In addition, Dr Stanford has varied administrative experience at the University. She was Vice-President of Student and Academic Services (1990-94) and Chair of the Department of Linguistics for

three years. She is renowned for her special interest in the development of excellence in university teaching and was named a national 3M Teaching Fellow in 1989.

The Institute provides stuttering treatment to children and adults of all ages. As well as serving Albertans, ISTAR attracts clients from the USA, Europe, the Middle East and elsewhere. It provides training for students from the University of Alberta and other universities and speech service centres around the world. The Institute is a nonprofit society supported generously by the Elks and Royal Purple and by donations from private individuals. ■

SENATE INVITES NOMINATIONS FOR HONORARY DEGREE RECIPIENTS

The University of Alberta Senate invites members of the public to nominate candidates for honorary degrees. Nominees may be of local, national or international reputation and need not be of Canadian citizenship.

Nomination forms, available from the Senate Office, must be received duly completed by Friday, 15 December 1995.

Enquiries should be addressed to: The Senate, 150 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8. Telephone: 492-2268; fax 492-2448; E-mail: senate@ualberta.ca

SELECTION COMMITTEE FOR THE DEAN, FACULTY OF EDUCATION

A Selection Committee for the Dean of the Faculty of Education is being established.

The GFC Nominating Committee requires for this committee **one (1) academic staff representative from Category A1.0**, from outside the Faculty concerned, elected by GFC. For staff category definitions, see Section 5 of the GFC Policy Manual. In brief, Category A1.0 includes full- and part-time, continuing (tenure-track and soft-tenure-track) faculty. If you have any questions regarding the categories of staff and/or eligibility to serve on this committee, contact Ms V Pemberton-Pigott, Coordinator, GFC Nominating Committee, 2-5 University Hall (extension 1938; E-mail: val.pemberton@ualberta.ca).

If you wish to submit a nomination, please forward a letter of nomination and brief biographical sketch to Ms Pemberton-Pigott at the above-noted address by **Friday, 15 December 1995**.

In memoriam: EJH Greene

By Milan V Dimic

After a lengthy illness, Ed Greene passed away on 4 June 1995. One of the entries in the University of Alberta's Calendar reads: GREENE, Edward Joseph Hollingsworth, MA (Alberta), DU (Paris), Professor Emeritus of Romance Languages (1938, 1978). These facts can only hint at the contributions EJH Greene, as he is better known by the profession, has made to the University with which he was associated before retirement for well over forty years, to French and international literary history, and to the development of Comparative Literature as a discipline in Alberta and Canada.

Ed was born and grew up in Edmonton, studied at the U of A and won a French Government Bursary. His studies in Paris were interrupted by World War II; after a dramatic escape before the German army, he spent the war serving Naval Intelligence. He returned to France after the war, where he completed his doctorate at the Sorbonne with highest honours,

visiting and corresponding with TS Eliot on whom he wrote his dissertation.

At the U of A he was Head of Modern Languages, Head of Romance Languages, Associate Dean of Arts and the driving force in the foundation of the Department of Comparative Literature. On the national scene, he served the Canada Council with distinction and was the founder of the Canadian Association of University Teachers of French and the Canadian Society for Eighteenth Century Studies. He is the author of several articles, of widely hailed books on TS Eliot and the French Symbolists, on Marivaux, and on Latin and French comedy, and is the co-author of a successful first-year textbook of the French language.

Left to remember him are his wife Joan, of Edmonton; his son John, who teaches French at the University of Victoria; his son Peter, of Sherwood Park; his daughter, Moira Bounds of Edmonton;

eight grandchildren; many other family members, as well as good friends, colleagues and former students.

We honour Ed as a great teacher and seminal scholar; an administrator of vision, fairness, and absolute probity. While not suffering fools gladly, he was always doing what he thought was right, with no concern for the advantages of expediency and conformity. An exceptional host and story-teller, Ed not only attracted many of us to the University of Alberta—irrespective of gender, creed, or ethnic or racial background—but also made us feel welcome and appreciated. Our debt goes beyond words.

May I conclude with a quotation from one of his most favourite books, Antoine de Saint-Exupéry's *Le Petit Prince*, and in the language he loved so dearly: "Il tomba doucement comme tombe un arbre."

The above eulogy was read to members of the Faculty of Arts Council on 19 October. ■

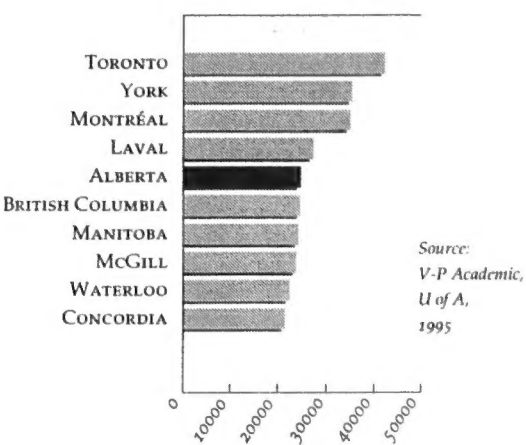
Indisputably Recognized

"Our vision, as we emerge from this and enter the next century, is to be indisputably recognized, nationally and internationally, as one of Canada's finest universities."

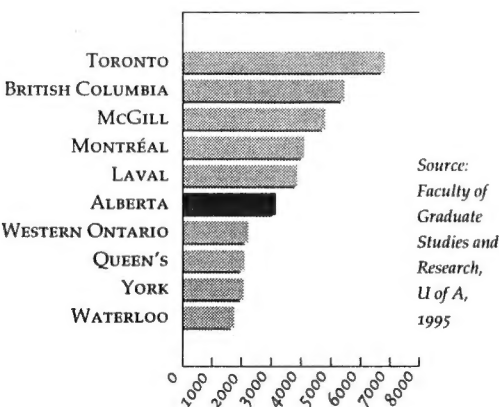
President Rod Fraser enunciated the University of Alberta's vision at the President's Dinner last month, and presented the following indicators, which, when taken together, "help identify where we excel and where we may need to direct our attention to enhance our future performance."

"While the University of Alberta is clearly one of Canada's finest universities, our accomplishments are not as well known as they should be. If we are to be indisputably recognized for our achievements, we must not only excel but we must also be bold about communicating our record," Dr Fraser said.

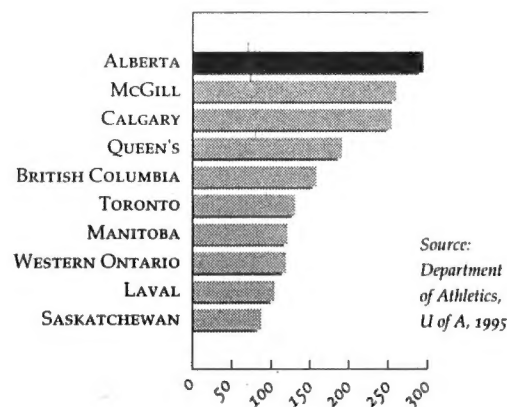
UNDERGRADUATE ENROLMENT
(1994-1995)



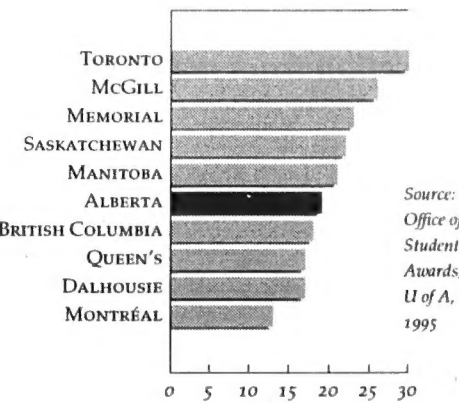
FULL TIME GRADUATE STUDENTS
(1993-1994)



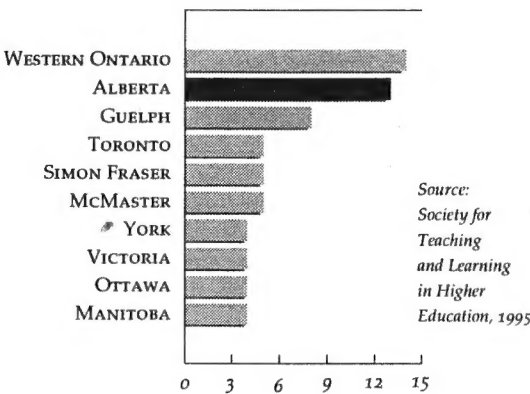
CIAU ACADEMIC ALL-CANADIANS
RANKING (1990-1995)



RHODES SCHOLARSHIPS (1965-1995)



ACCUMULATED 3M FELLOWSHIPS
AWARDED TO 1995

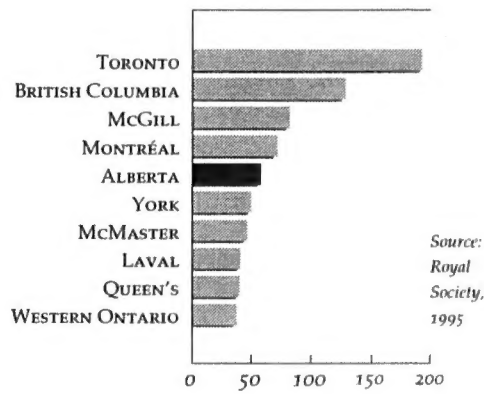


CANADIAN LIBRARIES
IN NORTH AMERICA (1994)

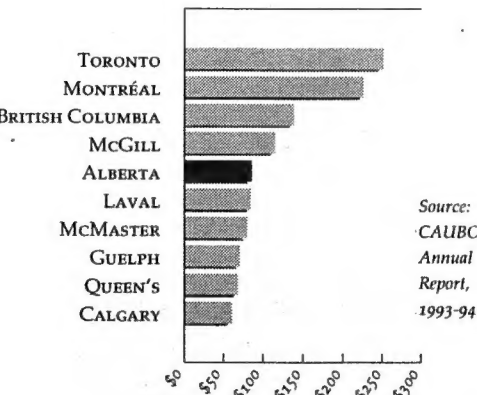
LIBRARY	N.A. RANKING
TORONTO	7
ALBERTA	25
BRITISH COLUMBIA	29
MCGILL	43
WESTERN	72
GUELPH	75
YORK	79
LAVAL	81
QUEEN'S	84
WATERLOO	102

Source: Association of Research Libraries, 1994

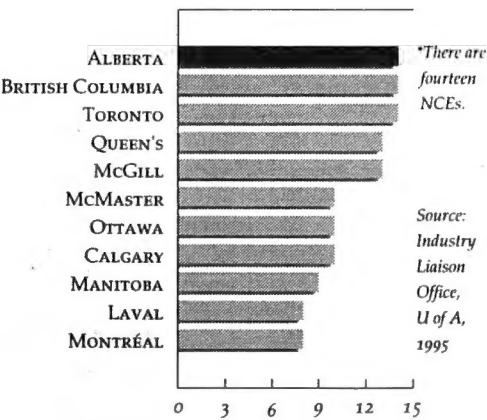
NUMBER OF ROYAL SOCIETY FELLOWS
TO 1995



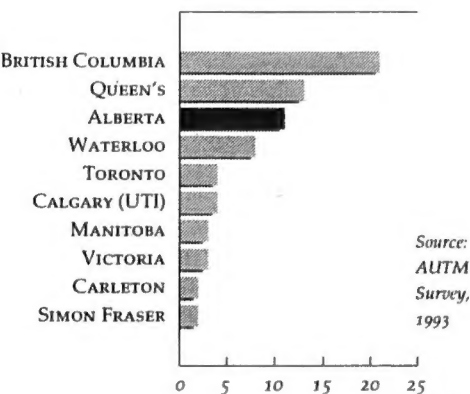
SPONSORED RESEARCH INCOME
(1993-94) IN MILLIONS



NETWORKS OF CENTRES OF EXCELLENCE*



U.S. PATENTS ISSUED (1993)



A brochure which includes the information graphically depicted on this page is available from the Office of the President, the Office of the Vice-President (Research) and the Office of Public Affairs.

Humanities and social sciences research gets boost

Special grant for meritorious SSHRC submissions

By Sandra Halme

Being close only counts in horse shoes and hand grenades, the saying goes. Twenty University of Alberta scholars can add a third item: "SSHRC grant proposals". Each scholar has received \$4,000 for "being close" to being awarded a grant.

It all began when Patricia Clements, Dean of the Faculty of Arts, mentioned to Martha Piper, Vice-President (Research and External Affairs), that consideration be given to using some money from both the Research Initiatives Fund and the general SSHRC research grant to encourage scholars to resubmit their SSHRC proposals. Dr Piper jumped at the idea, with the result that \$80,000 is being allocated to those 20 scholars whose proposals received favourable peer review yet were held up because funds were not available.

"It's important to encourage these scholars to resubmit even stronger applications," says Bill Bridger, Associate Vice-

President (Research). "To help them do this, and to recognize the merit of their applications, we awarded them a Special SSHRC 4A Grant." Dr Bridger adds that he hopes this assistance will enable the scholars to expand their research along the lines that peer reviewers suggested. He also says that he hopes this special grant will encourage more U of A scholars to submit grant proposals to SSHRC.

According to Dean Clements, it is "wonderfully enabling money". She emphasizes that the funding is also significant because it increases scholars' and administrators' understanding of the SSHRC grant awarding process. Dean Clements points out that most people holding SSHRC grants were awarded them after they resubmitted their proposals, that is, they used the feedback from the SSHRC committee to refine and strengthen their submissions for the second round. Scholars need to expect to get

feedback and then use it, Dr Clements says. She goes on to say that this special funding assists scholars in remaining focused in their field while revising their proposals.

Pamela Willoughby (Anthropology), one of the special grant recipients, calls the action a "lifeline". She explains that the only way she could improve her grant proposal was to conduct field studies in Tanzania last summer. "It was the one positive thing I could do to make my SSHRC proposal stronger, and I decided to go ahead with the work even though all funding wasn't secured." Dr Willoughby says she will use some of the special grant funding to defray the personal costs she incurred conducting her research.

Another recipient, Francis Landy (Comparative Studies in Literature, Film and Religion), says that he is "very impressed by the University's eagerness to encourage research and fresh applications to SSHRC."

Jennifer Jay (History and Classics) used her grant to help purchase an up-graded computer and for travel assistance to a conference where she's presenting a paper based on her proposed research.

Dr Bridger points out that the Research Initiatives Fund consists of income from overhead, licensing and royalties. He adds that typically this income comes from science and engineering research. "Here we have the payoff of applied research assisting humanities research. Everyone wins." Although he says there is no guarantee that such special grants will be awarded annually, Dr Bridger is optimistic that they will be.

Scholars awarded the special grant come from the Faculties of Agriculture, Forestry, and Home Economics; Arts; Business; Education; Engineering; Physical Education and Recreation; and Rehabilitation Medicine. ■

Bill Graham's 65th birthday present one to remember

Special dedication from major journal

By Sandra Halme

Most people are happy if friends just remember their birthday let alone give them a present. Imagine the surprise and overwhelming delight when Bill Graham found out that the prestigious *Canadian Journal of Chemistry* dedicated its July 1995 issue to him "on the occasion of his 65th birthday".

Dr Graham, Professor Emeritus of Chemistry and Associate Dean (Research) in the Faculty of Science, says he was "absolutely thrilled to be honoured by the people who know you the best [besides your family]." The dedication also cites Dr Graham's "outstanding contributions to organometallic chemistry over the past thirty-three years".

The chemistry and University communities are thankful that Dr Graham's father didn't push him into any profession, preferring that he make his own decisions about his future. "Dad owned a hardware store in our hometown [Rosetown, Saskatchewan]," explains Dr Graham, "and I know he probably would have liked for me to take over the store." Dr Graham's older brother had already decided on an engineering career and Dr Graham was his father's last hope.

Although he wasn't influenced in any way, Dr Graham did toy with the idea of taking commerce at university. He didn't, of course, and his entry into the world of chemistry turned out to be entirely serendipitous. "It was a time when you had



Bill Graham reviews the July issue of the *Canadian Journal of Chemistry* that was dedicated to him in celebration of his 65th birthday.

the freedom to choose any career you wanted because you'd almost be assured of a job," comments Dr Graham. "I didn't have a burning desire to be a chemist nor was it a calling. I just ended up in chemistry."

This may not appear to be a glowing endorsement for the chemistry profession (he is, in fact, one of the field's most ardent

supporters), but it is an example of Dr Graham's modesty and humility. In the *Journal's* biography of him, Dr Graham is considered "readily approachable, unselfish and eager to share his findings with his colleagues and other scientists. It is remarkable and gratifying that he has built an outstanding international scientific reputation while maintaining the demeanour of a true scholar".

Dr Graham came to the University of Alberta in 1962 following graduation from the University of Saskatchewan and Harvard, and five years with a private sector company in Massachusetts. He moved into the world of academe so that he could conduct "curiosity driven research". Dr Graham's research focuses on the synthesis, properties and structures which combine metals with organic fragments.

According to the *Journal*, Dr Graham is best known for the work he has done since 1982. In that year he made the remarkable discovery, together with a similar discovery by an American scientist, which constituted the first reports of carbon-hydrogen activation in saturated hydrocarbons. This discovery, considered a milestone in the development of organometallic chemistry,

demonstrated that reactions could take place which could lead to new and efficient processes of converting petroleum to petrochemicals.

The University has recognized Dr Graham's work, awarding him a 1991 Kaplan Research Prize and a McCalla Professorship. Other honours include receiving the Noranda and EWR Steacie Awards and the Chemical Institute of Canada Medal. Dr Graham is a Fellow of the Royal Society of Canada and was a Centenary Lecturer of the Royal Society of Chemistry (London) in 1987-88.

Although he officially "retired" last August, Dr Graham accepted the invitation from Science Dean Dick Peter to become the Faculty's Associate Dean (Research). Ever collegial and with a strong sense of duty, Dr Graham says he has taken on the challenge because it could be interesting and different.

He is quick to point out, though, that the position is only half-time and he will still have time to travel up and down the west coast, hanging out at traditional jazz and Dixieland festivals. He also intends to spend time in his darkroom, soon to be completed at his home. ■

Everyone is invited

to a special reception honouring the 27 years of outstanding service to the University of Alberta by

Bill Bridger

Department of Biochemistry and Associate Vice-President (Research)

who is leaving to become Vice-President (Research) at the University of Western Ontario

Monday, 27 November
4:30 - 6:30 pm
Faculty Club Upper Lounge

Those wishing to contribute to a gift please send contributions to the "Bill Bridger gift fund" in care of Katharine Moore, 3-12 University Hall.

Arthritis Society a partner in pursuit of answers

By Folio staff

Dr Paul Davis, Director of Rheumatology recently accepted a cheque for \$137,899 from Jerome Engler, Divisional Chairman of the Arthritis Society. These funds, which are the Society's 1995 contribution to U of A research into rheumatic disease, include an outright gift of \$20,000 as well as funding awarded nationally by the Society on a competitive basis. Research to develop diagnostic tools, look at genetic risk factors or study the epidemiology of rheumatic diseases such as osteoporosis and rheumatoid arthritis are among the projects supported by this funding. ■



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Physical Plant to the rescue

Chemical engineer finds help was a four-digit call away

By Ron Thomas

The words "We can help you with that" were music of symphonic proportions to Karl Chuang's ears.

Now, with that statement having been fully acted on, he's directing thunderous applause to the "musicians", the staff of Physical Plant's Utilities Division.

"I'd never heard about them, but they did a beautiful job," the Professor of Chemical Engineering says of the summertime building of a distillation column that he needed for the testing of acetic acid/water mixtures that are integral to the making of polyesters.

Dr Chuang, who regularly market tests equipment for chemical, petrochemical and petroleum companies, was worried that the work he had undertaken for DuPont was coming to a standstill. A one-foot diameter, high capacity de-entrainment device had to be constructed and installed quickly if DuPont's need was to be met. Trouble was, Chemical Engineering's technical staff was not as plentiful as it once was, and of those remaining, some

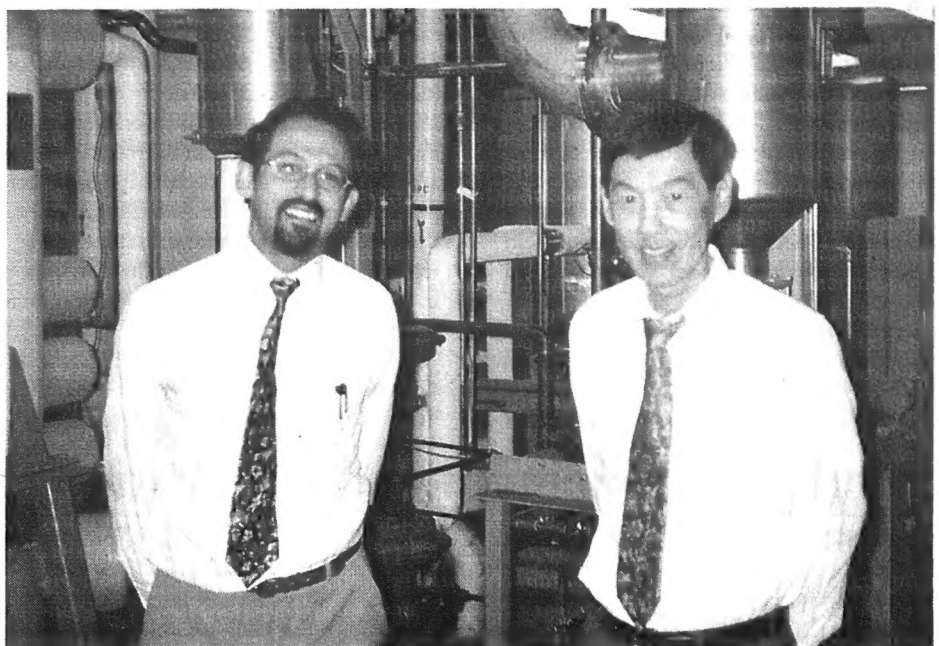
were on vacation, and others already had their hands full.

At DuPont and in the process lab that's Dr Chuang's second home, the clock was ticking insistently.

Remembering that an earlier request for high pressure steam had received a favourable response from the Utilities Division Dr Chuang called Agnelo da Silva, the Mechanical Utilities Manager, laid out the problem, and heard the magic words.

"We [faculty and staff] have to do things with fewer human and financial resources, and we tend to overlook the expertise that's in our midst," Dr Chuang told *Folio* last week.

da Silva, who has a good many contacts off campus, arranged for the fabrication to be done externally and then directed Utilities' staff as they hooked up the modified piping and completed the installation work. The three-week effort "fit in with our [Physical Plant] mandate of supporting teaching and research activities," da Silva says.



Karl Chuang, right, and Agnelo da Silva have forged ties between Chemical Engineering and Physical Plant. Also, ICI UK has ordered two of the distillation units equipped with the de-entrainment devices tested at the U of A.

Philip Graeme Lawson, 1949 - 1995

By Ken Munro

Next to his family, Philip Lawson's greatest love was history. As an academic, his career was short, but illustrious. He contributed greatly to the making of the British section of the Department of History and Classics at the University of Alberta, one of the best in the country.

Born in Morecambe, Philip Lawson spent most of his early life in a village called Laneshawbridge in Lancashire, England. Although an excellent soccer player, he chose to turn away from a possible professional "football" career and instead, decided to go to Manchester University. He subsequently earned his first degree and his master's degree there, and completed his PhD at Aberystwyth, Wales.

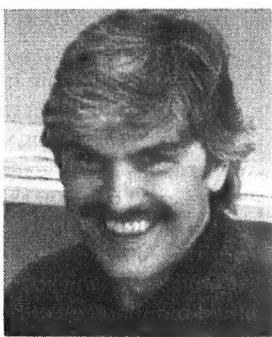
With two young daughters, Philip and his wife, Eileen, arrived in Halifax where Philip took up a Killam postdoctoral fellowship. In 1983 the family moved west to the University of Alberta where Philip had been awarded a Mactaggart Fellowship. This prestigious award, designed to entice promising young scholars to Edmonton to await a permanent teaching position at the University, certainly fulfilled its purpose in bringing Philip Lawson here. Philip never ceased to praise Sandy Mactaggart for providing scholars like himself with an entrée to academia. This fellowship, however, was only one of the many awards Philip obtained as a student and professional historian. His latest and most prestigious was

his election in January as a Fellow of the Royal Historical Society.

From the time he was hired in 1986 as a permanent member of staff, Philip rose quickly up the academic ladder to be-

come a Full Professor in 1994. He took his teaching duties very seriously and was an extremely kind individual who encouraged and sought the best of his students. Recognizing that young scholars required a forum to present their research and receive criticism in a more relaxed setting than the classroom, he founded the British History seminar.

The last few years have been some of the most exciting in Philip's career. Never dropping his interest in politics and empire, he had most recently added the study of culture to his work in eighteenth century Britain. At the time of his death, Philip was concerned about the effects of empire on Britain, and especially the impact of empire on British culture in Hanovarian times as seen through the "empire of tea".



Philip Lawson

As an academic, Philip pursued knowledge relentlessly. He believed a scholar's duty was to teach, publish and play an active role in the community. Universities, he often argued, made their reputations through the work of their faculty members. In this regard, Philip helped to make our University known worldwide as an institution of prominence. His peers here and elsewhere respected and consulted him. He opened

otherwise closed doors for his students at institutions well beyond our city, and attracted many distinguished scholars to our University. His long list of books, articles and reviews is a legacy which many will find difficult to surpass in their much longer careers.

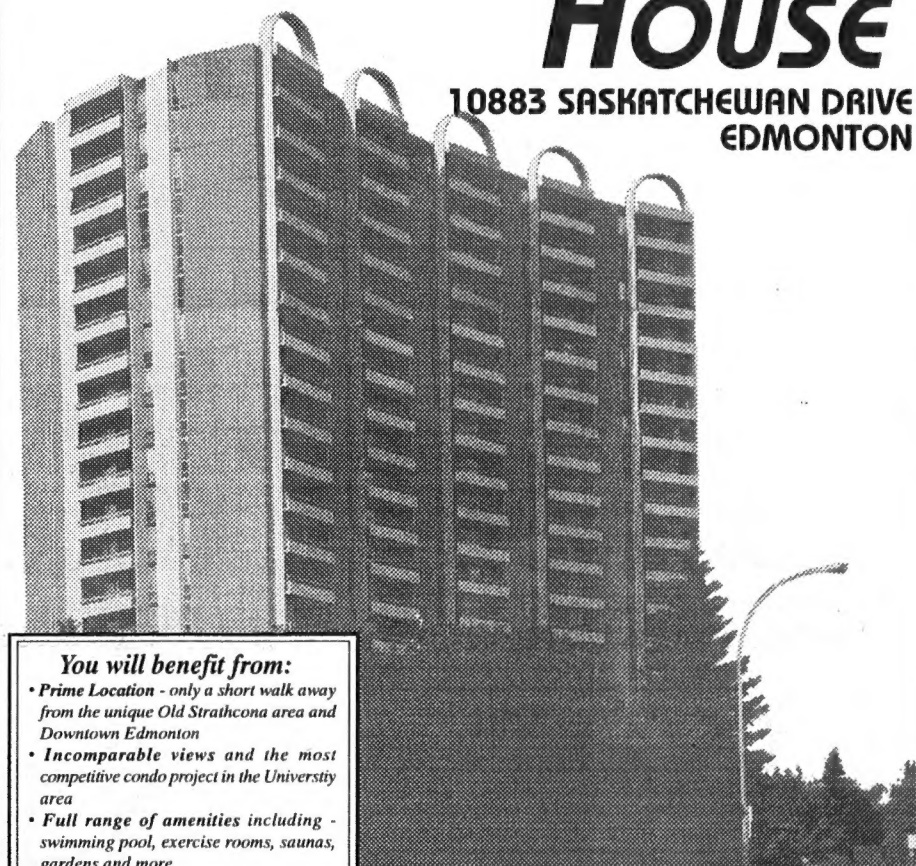
Dr Philip Lawson was a valued colleague who will be sadly missed. ■

Dr Ken Munro was a colleague of Dr Lawson in the Department of History and Classics.

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Muscle matters and other McCalla researches

By Folio staff

Muscles are the focus of Vickie Baracos' research program in the Department of Agricultural, Food and Nutritional Science. In particular, it is the complex processes of muscle growth and wasting, and the hormones and signals that control them, that interest her.

Poor nutrition, lack of activity and a number of diseases alter muscle protein metabolism and cause tissue wasting to occur; this is a negative factor in animal production, as well as a contributor to the pathogenesis of cancer, diabetes, injury

and infection in humankind. In severe cases, such as in some types of cancer, patients may lose more than 80 percent of their healthy muscle mass.

Basic research into the biochemistry of muscle growth and wasting has many areas of application. Knowledge of muscle protein metabolism is needed to identify the underlying causes and to develop treatments for protein malnutrition and muscular atrophy in injury, infection, diabetes, and cancer.

The relative rates of protein synthesis

and degradation define the rate of muscle protein deposition, a fundamental process in animal growth and meat production. The continual degradation of protein even in growing animals constitutes the major inefficiency in meat production; at the same time, protein degradation in muscle after animals are killed is the main process by which tenderization of meat occurs. During the McCalla Professorship, Dr Baracos will extend her work on muscle protein metabolism using current techniques of cellular and molecular biology.■

Better communications to preserve the human habitat

The reduction of the impact that people have on the environment can no longer be addressed exclusively through improvements in technology, says McCalla Professor Jorge Frascara (Art and Design).

"Rather, it is now necessary to change from a technology-centred solution to a solution that is centred on a change in the attitudes and habits of people," Dr Frascara says. For this to be possible, he emphasizes that the environmental problem must be presented in terms that people understand and in ways that gain public support and action.

With "extensive consultation", Dr Frascara is using his McCalla Professorship to develop a "communicational campaign proposal aimed at affecting and modifying the social and cultural values that support the current abuse of natural resources."■

Model development and application for hope work

By Folio staff

Hope, Rona Jevne emphasizes, is central to education, essential to counselling and necessary for healing.

"Whether viewed as a human need, a biological life force, a mental perspective, or an external pull to transcend self, hope is capable of changing individual lives," says the Professor of Educational Psychology. "It enables individuals to envision a future in which they are willing to participate. Without hope, the professional is unable to influence learning, adjustment or recovery. Hope, therefore, is a distinctive and important phenomenon worthy of theoretical, empirical and experiential investigation."

The rub, as Professor Jevne sees it, is that while the significance of hope is noted in the writings of scholars and practition-

ers of a variety of disciplines, "one is struck with the scientific neglect of so consequential a human phenomenon (Menninger, 1959; Staats 1989). Recent understandings of the mind/body relationship have confirmed the value of hope and give rise to three important questions which are the focus of work to be addressed: what is the nature of hope? how is it enhanced? and how can it be studied?"

Professor Jevne, who recently concluded her McCalla Professorship, approached three interrelated objectives in an integrated way. "First, a rich description of hope was developed from existing data and from further inquiry. Secondly, a model of *hope work* will be developed that provides educators and mental health

practitioners with direction and strategies for strengthening the experience of hope. Thirdly, a method of inquiry respecting the nature of hope and the context in which it is experienced will be articulated."

This research is being conducted in the larger framework of the Hope Foundation of Alberta. It is a joint University/community venture that Professor Jevne thinks has the potential to significantly influence the practice of several disciplines.■

McCALLA PROFESSORSHIPS: SMALL FACULTIES COMMITTEE

Applications are invited from continuing faculty from the Faculties of Dentistry, Extension, Law, Nursing, Pharmacy and Pharmaceutical Sciences, Physical Education and Recreation, Rehabilitation Medicine, Faculté Saint-Jean, School of Native Studies, or Interdisciplinary Research Units.

These prestigious awards provide full-time teaching relief for the period September to April to enable recipients to pursue a research project in Edmonton.

Application information is available from Deans' Offices.

Applications must be received by the Associate Vice-President (Academic) by 1 December 1995.



Ron Thomas

RESPECT POSTER GRACES CAMPUS

Colleen Bock, a recent graduate of the BFA (Visual Communication) program is pictured with the respect poster that she created on behalf of the Office of Human Rights. Bock says she looked to African masks for inspiration because "the variety and simplified features are intriguing and somehow powerful in their basic representation of humanity." Decidedly not a carver of such masks, Bock created the poster using found elements in an electronic medium. The poster is a combined result of both design decisions and educated guesses, she says.



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■ \$25 per pay cheque (\$650/year) will operate the Sexual Assault Centre's crisis line for one week.

■ \$40 per pay cheque (\$1040/year) will provide prescription medication to the residents at the Youth Emergency Shelter for one year.

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For better communication

Having chosen English as the preferred language in the EEC, the European Parliament has commissioned a feasibility study in ways of improving efficiency in communications between government departments.

European officials have often pointed out that English spelling is unnecessarily difficult, for example, cough, plough, rough, through, and thorough. What is clearly needed is a phased program of change to iron out these anomalies. The program would, of course, be administered by a staff committee at top level by participating nations.

In the first year, for example, the committee would suggest using 's' instead of a soft 'c'. Certainly, sivil servants in all sities would reseive the news with joy. Then the hard 'c' would be replased by 'k' sinse both letters are pronounsed alike. Not only would this klear up konfusun in the minds of klerikal workers, but typrwriters could be made with one less letter.

There would be growing enthusiasm when in the sekond year it was announsed that the troublesome 'ph' would henseforth be written as 'f'. This would make words like 'fotograf' twenty per sent shorter in print.

In the third year, publik akseptanse of the new spelling can be expekted to reash the stage where some komplikated shanges are possible. Governments would enkourage the removal of double letters which have always been a deterrent to akurate speling.

We would al agre that the horrible mes of silent 'e's in the languag is disgrasful. Therfor we kould drop thes and kontinu to read and writ as though nothing had hapend. By this tim it would be four years sins the skem began and people would be reseptiv to steps sutsh as replasing 'th' by 'z'. Perhaps zen ze funktion of 'w' kould be taken on by 'v' vitsh is, after al, half a 'w'. Shortly after zis, ze unnecessary 'o' kuld be dropd from words kontaining 'ou'. Similar arguments vud of kors be aplid to ozer kombinations of leters.

Kontinuung zis proses yer after yer, ve vud eventuli have a reli sensibl riten styl. After tventi yers zer vud be no mor trubls, no mor difikultis and evrivun vud fin it ezi tu understand ech ozer. Ze drem of ze govermnt vud finali hav kum tru.■

This article was recently posted on the Internet.

TAX DEDUCTIONS FOR 1995 PRIOR SERVICE PENSION CONTRIBUTIONS

Revenue Canada's deadline for making contributions towards purchasing prior service for the 1995 tax year is 31 December 1995.

Staff members currently purchasing prior service may wish to make additional payments over and above their regular payroll deductions. Such payments can be made in either of the following ways: 1) request the additional payment be deducted from your December paycheque, or 2) forward a personal cheque, made payable to the University of Alberta, for the additional payment.

Staff wishing to make an additional payment may submit their request in writing, indicating the amount and payment method chosen, to: Pension and Benefits Administration, 302 Assiniboia Hall, no later than 1 December 1995. Personal cheques may be postdated up to and including 15 December 1995. Please supply Social Insurance Number for credit of the additional payment to your 1995 T4.

Pension and Benefits Administration suggests that you consult with your tax advisor concerning any steps you should take in 1995 to maximize your 1995 prior service tax deductions. As a matter of policy, Pension and Benefits Administration staff have been instructed not to attempt to provide personal tax advice.



LAURELS

■ **Biochemistry Professor Cyril Kay** has been appointed a Member of the Order of Canada. The Order, established in 1967, recognizes outstanding achievement, honouring those who have given service to Canada, to their fellow citizens or to humanity at large.

■ **Sociology Professor Susan McDaniel** is the recipient of the 1994 Faculty of Arts Undergraduate Teaching Award. She has also been reappointed by the Honourable John Manley, Minister Responsible for Statistics Canada, to the National Statistics Council, a Council of (in the Minister's words) "outstanding Canadians" which advises the Chief Statistician of Canada on all aspects of data collection and analysis. Dr McDaniel's second three-year term is from 1995-1998. She was first appointed in 1992.

■ **Dr NR Morgenstern**, University Professor of Civil Engineering and Chair, Department of Civil Engineering, has received the Engineering Alumni Medal from the Engineering Alumni Association and the Faculty of Applied Science and Engineering at the University of Toronto. The medal symbolizes the highest award that the Association can confer upon an engineering graduate of the University of Toronto - the keynote being "For Achievement".

RUTHERFORD AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING

The GFC Undergraduate Teaching Awards Committee (UTAC) reminds the University community that nominations are now being sought for the annual Rutherford Award for Excellence in Undergraduate Teaching.

The purpose of the Rutherford Award is to recognize excellent teaching, to publicize such excellence to the University and the wider community, to encourage the pursuit of excellence in teaching, and to promote informed discussion of teaching and its improvement at the University of Alberta.

Nominations are made by Faculties that teach undergraduate students, and information about the nomination procedures and adjudication criteria has been sent to those Faculties. Nominations

should be made through a Faculty committee and submitted by the Faculty to the Secretary of UTAC, 2-5 University Hall. Anyone who needs assistance and advice in preparing nominations should contact Ms Bente Roed, Director, University Teaching Services, 215 Central Academic Building (492-2826). The deadline for receipt of award nominations is **9 February 1996**. In most cases, individual Faculties have established earlier deadlines to allow for internal adjudication procedures.

At least one award, but not more than five, is given annually. The award recipients are publicly recognized at a special occasion and at Convocation. They also receive a memento and a cash prize of \$2,500.

REGISTRAR'S OFFICE OPEN LONGER

A reminder that the Office of the Registrar and Student Awards has increased its hours of counter service. The action was taken in response to requests from students, applicants and

other clients for greater in-person access to services provided by the office.

The office is open through the noon hour and Wednesday evenings year round.

■ **Dr Frank Robinson** (Agricultural, Food and Nutritional Science) was presented with the Purina Mills Teaching Award at the Poultry Science Association's 84th annual meeting held in Edmonton in August. The conference was attended by more than 700 scientists, the majority of them from the United States.

■ At the same meeting, two renowned poultry nutrition scientists, **Dr Donald Clandinin** (Professor Emeritus) and **Dr Alex Roblee** (Professor Emeritus) were recognized by the Alberta Canola Producers Commission and the Canola Council of Canada for their contributions to the canola industry. Both started research with rapeseed in the mid-1950s. They were active in promoting the use of canola meal in many countries, and made significant contributions to expand the international market for canola. Canola acreage across the Canadian prairies generated well over \$2 billion in farm gate 1994 receipts, the highest of any cash crop including wheat.

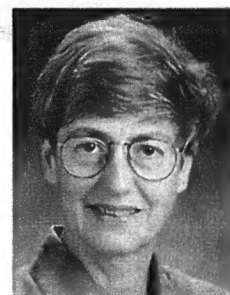
■ The Canadian Society of Clinical Chemists has bestowed its 1995 Education Excellence Award upon **Robert Stinson**. Dr Stinson, director of the Graduate Degree Program in Medical Laboratory Science, University of Alberta Hospitals, has supervised many MSc and PhD students, as well

as postdoctoral research fellows, over the past 20 years. He also serves as the department's Graduate Research Coordinator and he set up a Summer Youth University Program in Laboratory Medicine for 160 secondary school students annually.

■ **Diane Taylor** (Medical Microbiology and Infectious Diseases) has received the 1995 Boehringer-Mannheim Award from the Canadian Society for Microbiologists.

The award was for Dr Taylor's lifetime contributions to research in microbiology, research that involves bacterial genetics, antibiotic resistance and studies of *Campylobacter* and *Helicobacter pylori*.

■ The winner of the C.D Nelson Award of the Canadian Society of Plant Physiologists is **Greg Taylor**. The award is for outstanding scientific achievements by a young scientist. Dr Taylor is a Professor of Botany; his research centres on the physiological basis of aluminum, acid soil tolerance in higher plants.



Diane Taylor

Open: Mon. to Wed. 9-6, Thurs. 10-8, Fri. 9-8, Sat. 10-4
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TALKS

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

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Qiang Gu, Department of Ophthalmology, University of British Columbia, "Mechanisms Underlying Visual Cortex Plasticity." Co-hosted by Physiology. 207 Heritage Medical Research Centre.

1 December, 3 pm
Peter Nguyen, Center for Neurobiology and Behavior, College of Physicians and Surgeons of Columbia University, New York, "Neuronal Adaptation to Activity: Metabolic and Molecular Perspectives on Synaptic Depression and Potentiation." Co-hosted by Physiology. 207 Heritage Medical Research Centre.

ANATOMY AND CELL BIOLOGY

10 November, noon
Dave Pilgrim, "Sexy Nervous Green Glowing Worms: Transgenes in the Study of *C. elegans* Development." 5-10 Medical Sciences Building.

ANTHROPOLOGY

17 November, 3 pm
Mere Roberts, "Metis" (Maori/Pakeha) zoologist from New Zealand, "Ways of Seeing: Maori and Pakeha Perspectives from Aotearoa/New Zealand." 14-28 Tory Building.

AQUATIC ECOLOGY

16 November, 12:30 pm
Margo Pybus, wildlife disease specialist, Alberta Fish and Wildlife, "Waterfowl Disease at Pakowki Lake, Alberta." M-141 Biological Sciences Centre.
23 November, 12:30 pm
Bev Gingras, "Behaviour and Breeding Success of Common Loons on Small Lakes in Central Alberta." M-141 Biological Sciences Centre.

BIOETHICS

15 November, 3:30 pm
Andrew Light, Environmental Health Program, "Identity Politics and the Ethics of Care." 227 Aberhart Nurses Residence, 8220 114 Street.

BIOLOGICAL SCIENCES

16 November, 3:30 pm
Joan Turner, Cross Cancer Institute, "Absence of DNA Dependent Protein Kinase in a Human Tumour Cell-Line: Implications for DNA Damage Recognition and Repair." This seminar is part of the Genetics 605 Seminar Series. G-116 Biological Sciences Centre.
16 November, 4 pm
Hugh Danks, Biological Survey of Canada, Canadian Museum of Nature, Ottawa, "Arctic Insects as Indicators of Environmental Change." TB-W1 Tory Breezeway.
17 November, 4 pm
Robert Lamb, Agriculture Canada, Winnipeg, "Plant/Insect Interactions in the Brassicaceae." M-145 Biological Sciences Centre.
22 November, 3:30 pm
David Pilgrim, "Sex, Muscle, Nerves and Worms: The Use of *Caenorhabditis elegans* for the Study of Development and Cell Biology." This seminar is part of the Genetics 605 Seminar Series. G-116 Biological Sciences Centre.

23 November, 4 pm
Callistus Ogo, "Maize Stem Borer Colonization, Establishment and Crop Damage Levels in an Agroforestry System." TB-W1 Tory Breezeway.
30 November, 4 pm
Jennifer Hiebert, "Tales From the Creek' Part I: Longitudinal Patterns of Flow and Fauna in a Foothills Stream." TB-W1 Tory Breezeway.
1 December, 4 pm
Douglas Bruce, Brock University, "Regulation of Light Harvesting in Photosynthesis." M-145 Biological Sciences Centre.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

17 November, 7:30 pm
Sophia Senyk, Pontifical Oriental Institute, Rome, "Who Was St Josaphat?" Sponsored by the Ukrainian Church Studies Programme (CIUS). 352 Athabasca Hall.

CATHOLIC CAMPUS MINISTRY

23 November, 7:30 pm
Father George Smith, "The Church We Believe In." Newman Centre, St Joseph's College.

CENTRE FOR GERONTOLOGY

27 November, 7:30 pm
Constable Rudy Desmeules, Edmonton Police Service, "Crime Prevention Through Environmental Design." 2-50 University Extension Centre.

CENTRE FOR RESEARCH IN CHILD DEVELOPMENT

17 November, 1 pm
Joseph K Torgeson, Florida State University, "Longitudinal Studies of Phonological Processes and Reading." CW-410 Biological Sciences Centre.
24 November, 1 pm
Connie Varnhagen, "From Pating to Patting: A Microgenetic Study of Children's Spelling of Inflected Words." P-319N Biological Sciences Centre.

CHEMICAL ENGINEERING

16 November, 3:30 pm
Lanre Badmus, "Dynamic Modelling of Surge in Axial Compression Systems." 342 Chemical-Mineral Engineering Building.

COMPARATIVE ANIMAL PHYSIOLOGY AND CELL BIOLOGY

14 November, 12:30 pm
George Foxcroft, "Determinants of Embryonic Survival in Pigs—'Animal Farm' Revisited?" G-114 Biological Sciences Centre.
28 November, 12:30 pm
Robert P Millar, Department of Chemical Pathology, University of Cape Town, "Molecular Functioning of GnRH Receptor." G-114 Biological Sciences Centre.

EARTH AND ATMOSPHERIC SCIENCES

17 November, 3 pm
James A Burns, curator, Quaternary Paleontology, Provincial Museum of Alberta, "Mammoths, Mice and Earthmovers: Vertebrate Paleontology of the Edmonton Region." 3-58 Tory Building.
24 November, 3 pm
Guy Narbonne, Department of Geological Sciences, Queen's University, "Neoproterozoic of Northwestern Canada: Global Correlations, Tectonic Reconstructions and the Early Evolution of Animals." 3-58 Tory Building.

1 December, 3 pm
James M Ellis, Chevron Overseas Petroleum Inc, San Ramon, California, "Geological and Environmental Remote Sensing for International Petroleum Operations." 3-58 Tory Building.

ECONOMICS

24 November, 3 pm
Joris Pinkse, University of British Columbia, "Contracting in Space." 8-22 Tory Building.

ENGLISH

23 November, 3:30 pm
A joint poetry reading by Judith Pond and Paulette Dube. L-3 Humanities Centre.

ENVIRONMENTAL SOIL SCIENCE AND LANDSCAPE ECOLOGY

16 November, 12:30 pm
Andrei Starsev, research scientist, Alberta Environmental Centre, "Change in Soil Physical Properties Caused by Ground-based Logging Operations in Western Alberta." 2-36 Earth Sciences Building.
23 November, 12:30 pm
Zhengqi Chen, "Influence of the Nature of Organic Substances on Sorption of Non-Ionic Organic Contaminants." 2-36 Earth Sciences Building.
30 November, 12:30 pm
Cristina Quiroga-Jakas, "Temperature, Row Spacing and Seed Vigor of Directly Seeded Canola." 2-36 Earth Sciences Building.
7 December, 12:30 pm
Yongsheng Feng, "Water-Relations in Shrinking Soils." 2-36 Earth Sciences Building.

HISTORY AND CLASSICS

10 November, 3 pm
Rod Macleod and Heather Rollason, "Natives and Canadian Law in the Criminal Courts of the North West Territories, 1878-1885." 2-58 Tory Building.

MANAGEMENT SCIENCE

17 November, 3:30 pm
Gilbert Laporte, professor of Operations Research, École des Hautes Études Commerciales de Montréal and adjunct professor of Management Science, University of Alberta and Université Laval, "Modern Local Search Heuristics for the Vehicle Routing Problem." 4-16 Business Building.

MEDICAL MICROBIOLOGY AND IMMUNOLOGY

14 November, 3 pm
Diane Taylor, "Genetic Studies of Helicobacter Pylori and Characterization of its Le^x Antigen." 207 Heritage Medical Research Building.

MODERN LANGUAGES AND COMPARATIVE STUDIES

15 November, 7 pm
Latin American Films—"Bye Bye Brazil" (Spanish with English subtitles), presented by Richard Young. 141 Arts Building.
29 November, 7 pm
"The Official Story" (Spanish with English subtitles), presented by Fred Judson. 141 Arts Building.

NURSING

15 November, noon
Pam Ratner, "Examining the Effectiveness of Societal Responses to Wife Abuse." 2-115 Clinical Sciences Building.

PERINATAL RESEARCH CENTRE

21 November, noon
Diane Finegood, "Pancreatic β -Cell Turnover in the Neonatal Rat." Classroom F, 2J4.02 Mackenzie Health Sciences Centre.

PSYCHOLOGY

1 December, 3:30 pm
Kevin Dunbar, McGill University, "How Scientists Think, Reason, and Make Discoveries." P-121 Biological Sciences Centre.

RESEARCH SEMINARS IN EARLY WOMEN

21 November, 12:30 pm
Maureen King, "Arbella Stuart's Letter 16 and the 2nd Earl of Essex: 1601-1625." Senate Chamber, Arts Building.
5 December, 12:30 pm
Olga Mangalos, "Eighteenth-Century English Women Writers About Language." Senate Chamber, Arts Building.

RURAL ECONOMY

20 November, 3:15 pm
Glen A Mumey, "Alberta Treasury Branches: Performance and Prospects." 519 General Services Building.
27 November, 3:15 pm
Dianne Korber, "Adapting Traditional Harvest Survey Data to a Measure of Forest Dependence." 519 General Services Building.

SCHOOL OF LIBRARY AND INFORMATION STUDIES

23 November, noon
Ann Curry, assistant professor, Library Archival and Information Studies, University of British Columbia, "Intellectual Freedom Research: The Joys and Sorrows of Different Methodologies." 3-20 Rutherford South.

WHAT'S UP DOC?

16 November, 12:15 pm
Shrawan Kumar, "Low Back Pain: Possible Causes and Prevention." Information: 492-0840. 203 Edmonton Centre (near the pedway access to the Hilton Hotel).

SOCIOLOGY

29 November, noon
Graham Lowe, "Albertans' Reactions to the Klein Government's Budget Cuts." 5-15 Tory Building.

UNIVERSITY TEACHING SERVICES

14 November, 3:30 pm
George Buck, "Survival and Coping Strategies for the Classroom: Keeping Ahead of the Alligators." 281 CAB.
20 November, 3 pm
Ingrid Stammer, "Videoconferencing I: The Basics." 205 Administration Building.
21 November, 3:30 pm
Wes Cooper, "Moo Talk." 281 CAB.
22 November, 3 pm
Edo Nyland, "How to Find Teaching Resources on the Internet." CW-213 Biological Sciences Centre.
27 November, 3 pm
Ingrid Stammer, "Videoconferencing II: Cameras, Graphics, Action." 205 Administration Building.
29 November, 3 pm
Edo Nyland, "Computer Assisted Instruction: What Works, What Doesn't, What's Next." CW-213 Biological Sciences Centre.
4 December, 3 pm
Ingrid Stammer, "Videoconferencing III: Instructional Strategies." 205 Administration Building.

WOMEN'S STUDIES

16 November, 3:30 pm
Collette Oseen, "How I Went to Beijing and Lived to Tell the Tale: Reflections on the 1995 UN World Conference on Women." 14-28 Tory Building.

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EXHIBITIONS

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Until 22 December

"John Bunyan: The Books He Read, The Words He Wrote"—an exhibition of mostly seventeenth-century books. Hours: Monday and Friday, 8:30 am to 4:30 pm; Tuesday to Thursday, 8:30 am to 6 pm; Saturday, noon to 5 pm; Sunday, closed. Information: 492-5998. Basement, Rutherford South.

EXTENSION CENTRE GALLERY

Until 30 November

"Prelude Plus"—an exhibition of work by Douglas D Barry, professor emeritus, Faculty of Extension. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 8:30 to 11:30 am. 2-54 University Extension Centre.

FAB GALLERY

Until 26 November

"Selfsame—Sean Caulfield". This exhibition is the final visual presentation in partial fulfillment for the degree of Master of Fine Arts in Printmaking.

Until 26 November

"Chemical Guard Dog—Arthur Zajdler". This exhibition is the final visual presentation in partial fulfillment for the degree of Master of Fine Arts in Printmaking. Hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday and statutory holidays, closed. 1-1 Fine Arts Building.

MUSIC

DEPARTMENT OF MUSIC

11 November, 8 pm

Marnie Giesbrecht, organ, and the U of A Madrigal Singers. Leonard Ratzlaff, director. A program to celebrate the 70th anniversary of the Memorial Organ. Admission. Information: 492-0601. Convocation Hall.

2 December, 8 pm

Norman Nelson, violin, with Dianne New, violin, Jonathan Craig, viola, and Tanya Prochazka, cello. Program will include works by Freedman, Beethoven and Janáček. Lecturer: Regula Qureshi. Guest host: Terry Wickham, producer, Edmonton Folk Music Festival. Admission. Information: 492-0601. Convocation Hall.

EDMONTON CHAMBER MUSIC SOCIETY

15 November, 8 pm

"The Silesian Quartet." Tickets at the Gramophone or at the door. Information: 433-4532. Convocation Hall.

THEATRE

STUDIO THEATRE

9 to 18 November

"The Threepenny Opera" by Bertolt Brecht, music by Kurt Weill. Guest director—Uta Birnbaum, 1995-96 Mary Mooney Distinguished Visiting Artist. Information: 492-2495. Timms Centre for the Arts.

THÉÂTRE À LA CARTE

1 and 4 December, 1:30 pm (school matinees); 2 and 3 December, 8 pm

"Le Petit Prince" by Antoine de Saint-Exupéry. Tickets: \$5 students, \$7 adults, seniors free, groups \$3/student. Auditorium, Faculté Saint-Jean.

UNITED WAY LUNCHBOX THEATRE

20 November, 12:10 pm

Magic of "Maximum Entertainment." Timms Centre for the Arts.

22 November, 12:10 pm

Preview from the musical "Annie" by St Albert Children's Theatre. Timms Centre for the Arts.

23 November, 12:10 pm

Scenes from "Threepenny Opera" by the Department of Drama. Timms Centre for the Arts.



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POSITIONS

The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

ACADEMIC STAFF

DEAN, FACULTY OF EXTENSION

The University of Alberta invites applications and nominations for the position of Dean of the Faculty of Extension. The Faculty currently offers certificate and citation programs, as well as noncredit courses in a number of fields including Government Studies, Business, Applied Sciences, Legal Studies, Women's Program, Liberal Studies, Fine Arts, Land Economics and Real Estate, English as a Second Language, and Adult Education. Extension administers degree credit courses during intersession and off campus and provides a number of other services to the University and the community. There are about 100 academic and support staff in the Faculty.

The University has recently given to the Faculty of Extension the task of animating and supporting the development of alternatives to conventional classroom delivery methods, for example, videoconferencing, computer conferencing, and computer-assisted instruction. The new Dean will have the challenge of implementing the expanded mandate. Candidates for the position will have a strong interest in and knowledge of such alternative methods of delivering instruction.

The Dean is responsible to the Vice-President (Academic) for the supervision and administration of the academic programs, budget, and all activities of the Faculty. He or she must have the ability to lead in the creation of a new vision for the Faculty

corresponding to its expanded mandate within the University, and the ability to lead the Faculty in bringing that vision into being. This will include communicating this vision to other Faculties and Central Administration in order to enhance understanding of and therefore support for the Faculty of Extension's unique place within the University community.

Candidates should have previous administrative experience, proven leadership ability, strong academic qualifications, and a commitment to the promotion of excellence in teaching, research and community service.

The appointment will be effective 1 July 1996. Written nominations or applications for the position, accompanied in the latter case by a résumé of qualifications and experience, and the names of three referees, should be submitted by 31 January 1996 to: Dr D Owram, Vice-President (Academic), Third Floor, University Hall, University of Alberta, Edmonton, Alberta T6G 2J9

EXECUTIVE ASSISTANT TO THE DEAN OF MEDICINE, FACULTY OF MEDICINE

The Faculty of Medicine at the University of Alberta invites applications for the position of Executive Assistant to the Dean of Medicine. The Executive Assistant will work closely with the Dean to ensure that the Faculty's objectives and initiatives are supported and managed efficiently and expeditiously on a day-to-day basis, including the handling of correspondence. The main duties of this position are: to take on administrative tasks at the request of, or on behalf of the Dean; to provide appropriate background information to assist the Dean in pursuing initiatives and/or making decisions; to act as a resource to the Dean and senior administrative staff in the Dean's office; to act as a liaison with department chairs, university administrators and outside agencies and individuals as necessary.

The Executive Assistant must have an understanding and appreciation of the Faculty of Medicine's mission to research, education and clinical service and an appreciation for the academic man-

date of the University. Excellent written and oral communication skills are required. The successful candidate must have 3-5 years' prior experience in a senior administrative position, preferably in a university or in the health care sector. This is a permanent position, and the salary range for the position is \$39,401 to a maximum of \$59,105 per annum. Applicants are invited to submit a résumé, and a letter explaining their interest in and strengths for the position to: Dr D Lorne Tyrrell, Dean, Faculty of Medicine, University of Alberta, 2J2.00 WC Mackenzie Health Sciences Centre, Edmonton, Alberta T6G 2R7

The deadline for applications is 30 November 1995 and a starting date of mid-December or early 1996 is anticipated.

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As Payroll Operations Manager you will act as a policy advisor to senior management and as a consultant to the University community. You will provide high level technical advice and input to the University's budget process and its annual financial reporting requirements.

To be considered for this challenging and rewarding position, you combine a related postsecondary degree, or diploma, with considerable experience as a payroll manager of a large, unionized, public or private sector organization. You have superior organizational and interpersonal skills that enhance your knowledge of the legislative and regulatory requirements of the position. Finally, you are in your element in a highly computerized working environment.

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Interested applicants are requested to fax or mail their résumés, including salary expectations, to: MB McCune, Pay and Benefits Group Leader, Human Resources Group, 302 Assiniboia Hall, University of Alberta, Edmonton, Alberta T6G 2E7 Fax: (403) 492-7527.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.



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